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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,893	09/28/2001	Claus Erdmann Furst	45900-00064	1329
30593	7590	11/07/2003	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VA 20195			MCCHESNEY, ELIZABETH A	
			ART UNIT	PAPER NUMBER
			2644	
DATE MAILED: 11/07/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/964,893	FURST ET AL.
	Examiner	Art Unit
	Elizabeth A McChesney	2644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-34 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 34 and 36 is/are allowed.
- 6) Claim(s) 1,2,17-19 and 22-25 is/are rejected.
- 7) Claim(s) 3-16,20 and 21 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some *
 - c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ . |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5 and 7</u> . | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 17-19 and 22-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Martin (US Patent No. 5,796,848).

Regarding **claim 1**, Martin discloses a microphone casing 6 with an inlet port 15, which includes a transducer 1, pre-amplifier 8 and an analog-to-digital converter 7 (see figure 1). Martin further discloses the input of the pre-amplifier is connected to the transducer as well as the input of the A/D converter is connected to the pre-amplifier.

Regarding **claim 2**, Martin discloses everything claimed as applied above (see claim 1). Martin further discloses the A/D converter is a sigma-delta modulator (col. 3-lines 13-14).

Regarding **claim 17**, Martin discloses everything claimed as applied above (see claim 1). Martin further discloses the microphone assembly 6 is connected to a signal processor, which inherently teaches as a digital signal processor as the signal was converted to a digital signal prior in the A/D converter 7.

Regarding **claim 18**, Martin further discloses unit as a digital hearing aid (abstract).

Art Unit: 2644

Regarding **claim 19**, it is interpreted and thus rejected for the same reasons as set forth above in claim 1. Since claim 19 discloses a method, which corresponds to, the apparatus of claim 1; the method is obvious in that is simply provides functionality for the structure of claim 1.

Regarding **claim 22**, it is interpreted and thus rejected for the same reasons as set forth above in claim 2. Since claim 22 discloses a method, which corresponds to, the apparatus of claim 2; the method is obvious in that is simply provides functionality for the structure of claim 2.

Regarding **claim 23**, Martin further discloses filtering the digital signal via filters 4 and 4' within the signal processor (see figure 1).

Regarding **claim 24**, Martin further discloses filtering the digital signal via filters 4 and 4' within the signal processor (see figure 1) wherein the digital signal processor is inherently taught since the signal was converted to a digital signal prior in the A/D converter 7.

Regarding **claim 25**, see Examiner's comments regarding claim 24.

Conclusion

3. Claims 3-16 and 20-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
4. Claims 26-34 are allowed.

Art Unit: 2644

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth A. McChesney whose telephone number is (703) 308-4563. The examiner can normally be reached Monday – Friday, 8:00 am – 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

EAM *EAM*
October 28, 2003

Forester W. Isen
FORESTER W. ISEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600